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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,860	02/09/2004	James A. Proctor JR.	2479.2062-003	9494
21005 7590 06/28/2007 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD			EXAMINER	
			SAM, PHIRIN	
P.O. BOX 9133 CONCORD, MA 01742-9133		ART UNIT	PAPER NUMBER	
			2616	
•			MAIL DATE	DELIVERY MODE
			06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		<u> </u>			
	Application No.	Applicant(s)			
	10/774,860	PROCTOR, JAMES A.			
Office Action Summary	Examiner	Art Unit			
	Phirin Sam	2616			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.1.136(a). In no event, however, may a risid will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status		·			
1) Responsive to communication(s) filed on 09	February 2004.				
2a) This action is FINAL . 2b) ⊠ T					
3) Since this application is in condition for allow					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-16</u> is/are pending in the applicati	on.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6,10 and 16</u> is/are rejected.					
7)⊠ Claim(s) <u>7-9 and 11-15</u> is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
	·				
Application Papers					
9) The specification is objected to by the Exam					
10)⊠ The drawing(s) filed on 09 February 2004 is/	/are: a)⊠ accepted or b)□	objected to by the Examiner.			
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corr	•				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the p	riority documents have been	received in this National Stage			
application from the International Bure	eau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a l	ist of the certified copies not	received.			
(Ahì	\sim				
PHIRIN	SAM				
Attachment(s) PRIMARY EX	_				
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	s)/Mail Date nformal Patent Application			
Paper No(s)/Mail Date <u>02/09/04</u> .	6)	 ·			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 10, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,590,535 (hereinafter referred as "De Champlain") in view of US 2002/0042290 (hereinafter referred as "Williams").

Regarding claims 1-6, 10, and 16, De Champlain discloses a method for operating a wireless data communication system in which a relay station having a directional antenna forwards messages from a first node to a second node using a wireless physical layer signaling protocol, the method comprising the steps of:

- (a) receiving from the first node a wireless transmission for delivery at the second node (see Fig. 1, col. 5, lines 53-63, and col. 6, lines 11-17);
- (b) determining an identification of the second node from an initial portion of the wireless transmission (see Figs. 1 and 2, col. 8, lines 63-67, and col. 9, lines 1-9, 48-64);
- (c) determining, using the second node's identification, a preferred antenna angle for the directional antenna (see Figs. 1 and 2, col. 14, lines 13-18);
- (d) steering the directional antenna according to the preferred antenna angle (see Figs. 1 and 2, col. 20, lines 32-51);

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De Champlain does not disclose retransmitting the wireless transmission to the second node using the directional antenna. However, Williams discloses retransmitting the wireless transmission to the second node using the directional antenna (see Fig. 1, paragraph [0056]). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine retransmitting to the second node using the directional antenna teaching by Williams with De Champlain. The motivation for doing so would have been to provide to calibrate the antenna read on paragraph [0004]. Therefore, it would have been obvious to combine Williams and De Champlain to obtain the invention as specified in the claims 1-6, 10, and 16.

Allowable Subject Matter

3. Claims 7-9 and 11-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phirin Sam whose telephone number is (571) 272-3082. The examiner can normally be reached on a compress schedule, from 8:00-5:30, first Wed off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272 - 3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Respectfully submitted,

Date: June 24, 2007

PHIRIN SAM PRIMARY EXAMINER